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March 10<sup>th</sup>

An inaugural dissertation  
on  
the Physiology and Pathology of the Stomach.  
by  
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of South Carolina.

Passed March 10<sup>th</sup> 1826

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Diversified as may be the subjects for an inaugural dissertation, none more fairly claim attention, or open a field for more interesting and philosophic enquiry, than the Physiology and pathology of the Stomach. The importance of this organ, its extensive influence over the whole animal economy in health and disease, certainly is a subject well calculated to arrest the speculations of the philosophic and practical physician. If facts form the basis of sound reasoning, we must allow to the stomach a supremacy over all the viscera. It is the most universal of all, and as a rational deduction, the most indispensably necessary to animal life. Instances of human foetuses born destitute of a brain or heart, or lungs or liver, or some other organ, are familiar, but where will we find one, in which the stomach was found wanting? In some animals indeed, for instance *Toxophytes*, *Hydatids* and *Botryi*, no other animating viscus is discoverable. The *Polypus*, which is classed in the lowest order of being and considered as forming the connecting link between the animal and vegetable creation, has for a stomach, a simple cavity, into which its food

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is received, and from which it is afterwards disgorged. As we rise to the higher classes of animals we find the digestive apparatus becoming more complicated. From a straight tube, it becomes more or less convoluted, its length increased many times that of the body, and having added to it many subsidiary organs for the proper performance of its functions. In fine, the fact of the stomach being an inseparable incident to every grade of animal life, seems beyond the reach of sophistry. All parts of the body feel its salutary and invigorating influence when in health, and when deranged, all participate in its derangement. *Languido ventriculo, omnia languent.*

The anatomy of this organ is most interesting. We find it joined in a circle of nervous communication with all the viscera of the Thorax, Abdomen and pelvis, itself forming, as it were, the centre. The eighth pair of nerves, from their extensive distribution commonly denominated the *Par vagum*, which are the peculiar nerves of the Stomach, communicate freely with the Sympathetic, and have moreover, connections almost

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so extensive as this great nerve itself— to the oesophagus, pharynx  
and larynx, to the lungs and vessels of the heart, to the  
liver, spleen, duodenum &c are distributed branches of the plexus  
vagum. The stomach then we see occupying the central situa-  
tion of a most complicated structure, and maintaining a  
chain of sympathies more exquisite even than the brain itself.  
But it is not to the knife of the anatomist that we must look  
for a discovery of the whole importance of the stomach; it is in  
the living system where we behold those nice connexions of cause  
and effect, and those wonderful trains of associative mo-  
tions, that this fact is fully developed. We here behold it main-  
taining an intimate relationship with the whole animal ma-  
chine, invigorating and imparting tone to it when in health,  
and when disordered, giving origin to a multiplicity of dis-  
eases, truly wonderful. Why nature should be thus partial  
in the exalted station she has given to this organ, we may con-  
jecture from its office of preparing nourishment for the whole  
system. A desire for food, considered by some as coeval with  
the rudiments of the foetus, is certainly the first impulse

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stimulating to action the new born babe; and among the most wonderful operations of nature, is to be classed that for which the stomach seems designed. That we live in an age remarkable for its advances towards the perfection of literature and the Arts, examples of every day abundantly testify. Nor is the improvement lately suggested in the Physiology of the stomach, to be classed among those productions of a speculative genius, which throw an illusory light over the dark and intricate paths of science, but gradually disappearing, leaves the succeeding darkness more visible than before. The process of digestion has at various times been accounted for in various ways. The first theory that enlisted popular opinion, was that which imputed it to a putrefactive process, supposing the food to undergo the same changes in the stomach, that warmth and moisture effect upon it out of the body. The next theory suggested, accounted for this operation on physical principles, & which supposed the muscular coat of the stomach wrought mechanically on the food contained within it. Chemistry was next called ~~upon~~ in to furnish a still more plausible doctrine, and digestion then became

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hale chemical. Two second sections are long since been ex-  
posed, and for years past the cotton production of the most ex-  
tensive Physicists on this point has been, that digestion before  
the stomach is incomplete is performed by the solvent power of  
the gastric juice secreted by the organ thereby converted into what  
is termed chyme; this chyme propelled by the stomach into the  
duodenum and later combined with the Bile and Pancreatic  
secretions, assumes new characteristics a portion of being converted  
into what is termed chyle, this chyle taken up by the lacteals  
of the intestines is conveyed along to the Thoracic duct, which  
discharges it finally to the left subclavian vein. The idea of  
digestion being performed by a solvent power was first suggested  
by Chevreul. But upon the experiments of Beaumont and  
others the advocates for this theory withdrew now. The experi-  
ment of Beaumont who is the author of a most valuable treatise on  
digestion having found an ulcer in the great end of the  
stomach, and observing it was wounded by the gastric  
juice served perfectly to confirm the experiments already  
made. But how the chyme is formed may be well in doubt



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*[Faint, illegible handwritten text]*

ed by them into chyle. In support of this theory the arguments  
advanced are ingenious and convincing. The critical physi-  
ological experiment of which we have an account, is the dis-  
section of the eighth pair of nerves. This experiment has been  
reformed by many of the ancients and repeated by many  
modern Physiologists. Among the latter the experiments of  
Pavlov were on this nerve with reference to its effects on the  
Stomach, are exceedingly interesting and showing rather to what  
state the identity of the nervous influence and generation  
by these experiments it is demonstrated a division of the eighth pair  
nerves at once deprives the stomach of all power to digest food, but  
not by dividing the ends of these nerves within the thorax and  
overcoming <sup>them</sup> means of a galvanic battery, the pieces of ligatures  
it once assumed, and with due allowance for the dissolving & supply-  
ing of the fluid in proper proportion, no more is ascertained to be any  
division was made. To put then as the identity of the nervous in-  
fluence and generation is connected & admitted is sufficient to be  
the antecedent for secretion by the gastric juice. The question  
remains of difference regards the nature & action of the gastric

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pancreas. By one party it is maintained that this peculiar fluid  
secreted by the pancreas & the stomach acts merely as a stimulant  
to this organ, promoting the secretion of the gastric juices: by the  
other, that it is mixed & acts with the contents of the stomach,  
producing an universal decomposition. It would be an unnece-  
ssary expeniture of time to recount the arguments by which this  
view is maintained especially as the latter contains  
him is ascribed to some one. Suffice it to say a mixture of pancreatic  
secretion will increase and that the support of this view is inde-  
pendent of absorption by the veins of the stomach: similarity of structure  
presuming similarity of function - the veins of the intestines absorbance  
may not those of the stomach? The liver is redeemed from the conside-  
ration of insignificance, once again in this subject, meeting at least  
in its structure moreover is redeemed from the selection of assist-  
ing means inadequate to the performance of the end designed -  
the thoracic duct, hitherto considered as the only medium  
through which nourishment is conveyed into the system, a small  
and delicate duct, traversing an extent greater than any other  
vein in the body and exposed to a variety of accidents is found

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to weary only a point and that a small point of this neighbourhood.  
upon the whole I think it will be found that a candid and impartial  
inquiry, that the doctrine in question is strongly supported by  
reason and analogy, and not otherwise in the mind of man,  
should at least direct further enquiry.

After this cursory and imperfect glance at the physiology of the  
stomach, I will attempt a brief notice of its pathology. But it must  
be in the limits to which I am confined will not allow of a long in-  
vestigation. That diseases do originate in the stomach is evident  
first, from their being preceded by symptoms indicative of  
gastric distress; secondly, from them being applied directly to the  
stomach removing these diseases; and thirdly, from dissections  
showing a morbid derangement of this organ: the last last  
however cannot often be resorted to, for it has been remarked  
by one of the most distinguished Physicians of the age, that  
organic affections rarely take place in the organic part of a vis-  
cus but in organs simple and which most sympathize with  
the part affected: for example, in dyspepsia, when the stomach  
is originally affected, organic derangement will be met with

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in the liver, lungs or brain - parts which most sympathize  
with the stomach. Before proceeding further in this part of  
my subject it may be proper to premise, that to enter into a  
consideration of the whole catalogue of diseases which from the  
most improved state of pathology can be really demon-  
strated as originating in the stomach, would be to detail ex-  
tensive inspection of the most serious diseases to which man-  
kind are liable. It will be necessary therefore for me to con-  
fine my remarks to a few of the most prominent of these dis-  
eases. And first Dyspepsia will claim a few moments conside-  
ration. Whether we regard the variety, consequences or connections  
this with other diseases, none are of greater importance. Be-  
ginning from simple and apparently unimportant deviation  
from health it gradually undermines every power of the sys-  
tem. Its origin can be distinctly traced to causes acting imme-  
diately & continually on the stomach. It is not my design to enquire  
what these causes are. Investigation has been divided into  
three stages. The first stage is marked by symptoms denoting  
irregularity of the stomach and bowels; as, flatulencies, &c.



ity, distention after sleep, nausea, greenish matter, costiveness and  
increased irritability, is initiated secretion of bile &c. The second, or  
the inflammatory stage is brought on by the constant irritation of  
acid, indigested matter in the stomach, causing it to take on a  
degree of inflammation, and being accompanied with an inflam-  
matory tendency throughout the system, which is apt to show it-  
self chiefly in those organs most sympathizing with the stom-  
ach. The third stage is marked in various affections in other  
parts. These will be better noticed. From the fact of gastro-  
paresis being a powerful means for the propagation of disease, we are not  
surprised to find the liver the next part to suffer from any  
derangement of the stomach. Accordingly in the first stage  
of indigestion, a more or less irritated secretion of bile is enu-  
merated among the symptoms. Still farther advanced in the  
second stage, there is pain in the epigastrium, gradually  
extending downward till finally the right hypochondrium  
becomes full and tender as in typhoid. In short the symptoms  
now present, plainly indicate inflammation of the liver.  
This is an important step in the progress of the disorder from

*[Faint handwritten notes, mostly illegible.]*



The importance of the organ now affected. It was mentioned while  
speaking on the Physiology of the stomach, that the vessels rendered  
from the venous, former veins in this subject attached to it, by  
calling its functions powers and appearing of an important of  
use in the process of assimilation. It cannot therefore be surprising  
to find a disease seated in this organ of a serious nature,  
resulting in the primary disease that produced it and com-  
bining with it still more effectually to prostrate the powers  
of the system. It is not uncommon in indigestion for a se-  
condary disease to be induced by another supervening on it.  
Hence it happens that inflammation of the liver is often relieved  
in the liver the lungs becoming inflamed. This again is an in-  
crease of the progress of the disease. Dyspepsia & Phthisis are  
the commonest of the diseases of the lungs, and of a serious and  
incurable character. Of the symptoms which relate to the  
lungs there can be no doubt. The seat is within the  
lungs themselves. The disease is attended by  
cough, expectoration, and relieved by  
the use of expectorants and other medicines. It is in the lungs  
the most common a disease of the lungs.

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produce cough and other pulmonary symptoms. This form of  
Asthma in an advanced state is attended with symptoms  
greatly similar to those of genuine tubercular consumption,  
and a similar but most violent degree of emaciation of the lungs  
much the same as in other forms of Asthma; also dyspnoea  
however there is always depression to the usual symptoms  
of phthisis, there is, besides a advanced state of the digestive  
affections. It may be proper in this place, to add a fact of an  
interesting nature - that an affection of a part, dependent upon  
sympathy between itself and another part, being in the first in-  
stance merely a nervous affection, may be relieved by remedies  
applied directly to the part primarily affected; but if suffered  
to become of a more permanent nature, and in the same propor-  
tion more independent of the original source than for its relief,  
remedies must be applied to the part that is sympathetically  
affected: for example - in Hepatitis, one of the diagnostic symptoms  
the pain extending to the shoulder; there is at first no tender-  
ness in this part, and it looks perfectly natural, without the  
least appearance of inflammation. But if the complaint is

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is admitted to conclude, there will at last be an actual inflammation  
of the shoulder when the pain is felt, nor is it owing to the  
fact, and the arm cannot be moved without producing an appa-  
rent motion of the joint. I also in the *Staphylococcus*, proceed-  
ing from the irritation of worms in the surrounding cancer, at  
least in some cases. And these facts are *laboring* under this  
impression, to whom such matters are administered and  
in consequence of the worms, however, the *Staphylococcus* symp-  
tom is dissipated without any further treatment; while  
in some the disease and returns to the same state, or  
not earlier in the disease was in progress and obstructed.  
After infection there was no disease in such, or not based  
on inflammation in the tissue of the skin. The inflammation  
here is not a symptom of inflammation of the joint  
or of the bone, and kept up by the irritation of worms;  
but being removed the symptoms of infection vanish-  
ed; but when they were directed to remove the worms  
and inflammation in a general inflammation. These  
facts have an important effect in the treatment of many

*[Faint, illegible handwriting]*

sympathetic diseases. Returning now to dyspeptic phthisis, we find that the cause existing not in the apparent seat of the disease but in a distant organ, the means of cure must be applied radically to influence the state of that organ, before any relief can be expected in the functional symptoms. But it is only in the commencement of this lesion that a cure can be attempted with prospects of success, for if suffered to approximate in its nature to an original consumption of the lungs, it becomes like that, one of the phthisia medicorum. The connection of gut with intemperance is now sufficiently ascertained. When a tendency to this disease exists, it may be induced by any cause permanently in operation, and it has been as well known, that a patient subject to gout, enjoys a longer interval between the fits, the more cautious he is in his diet, & the tone of the digestive system. Its hereditary affection generally does not let itself forth in its violent or indigestion. Dr Prout expresses the manner in which indigestion

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is present to be indicative of a disease in the  
 the same manner the education is thrown out of the  
 action of the system and has up, and passing through  
 to history of these causes a repetition of other cases seen  
 in mine, this condition is known as the grave. However,  
 you are given there is no more insight. Both are active  
 upon the one and not the other. The stomach, and  
 the symptoms of each is in any manner the one with  
 the other. When both are present, and of course the same  
 same occupations of the stomach, the action of the  
 the one or the other of the still more important and  
 have to be found when it is seen as a food and given  
 however involves in the mind the nature of these diseases  
 may be, I am persuaded that the first part of the series  
 of actions that cause these two diseases are the same. The  
 cause of one includes and in some degree the cause of  
 the other, had it been removed in the stomach. It is common  
 for all the sympathetic affections, and not food or indigestion,  
 none are so frequent as those of the head. One of the commonest

*[Faint handwritten text, likely bleed-through from the reverse side of the page.]*

[illegible]



acting on the liver. We are inclined however that even when  
as above, the causes then that act on the liver, or  
and, their tendency to produce it, will be greatly increased  
owing to the state of the system; and this in all cases, however  
proper state of the digestive organs, is the best means of pre-  
vention. I might however, mention other nervous and intem-  
perate affections connected with indigestion, but cannot, as  
even said to demonstrate it a disease of no common interest,  
viewing as it does, an organ so intimately connected with  
our health. Indeed there can be no doubt, that in-  
digestion in different states and conditions, often gives rise to  
such an almost inexhaustible variety of anomalous disor-  
ders, as to affect nearly every other disease.

The pathology of the stomach as concerned in fever, will next  
claim our observation. Various have been the theories advanced  
as to its extent in the generation of fevers in the production of  
fever at different periods in the history of medicine. Thus  
in the enlightened age, medicine was in its infancy.  
The views entertained by our Physicians of the theory and practice



most common, have a species of fever which that called them to  
be considered. The doctrine he has hitherto maintained on this sub-  
ject is that it is a disease of the stomach, arising for the most part  
the first kind of its action, is continued and simpler than  
in the stomach. Morbid massiness of the most pituitous sources of  
the same with much appearance of both kind certainly, be-  
trayed as having its primary action on the stomach. What  
as the symptoms, preceding an attack of fever but such  
is limited in its nature, is distinct, and its action  
wherever one can find principles of action but to be  
known only through it is the system at large. In yellow  
fever which is esteemed by many as nothing more than a  
more aggravated form of the common bilious fever, produced  
by similar causes, only in a higher degree of concentration,  
and more fixed in their operation or accidental cir-  
cumstances, what are the most alarming symptoms but  
such as occur in, prove inflammation of the stomach:  
Finally, what have physicians agreed on this disease has  
in the stomach, has found to exhibit the most satisfactory

[illegible]



signs of inflammation. The back vomit, one of the most common  
of the symptoms of gastro fever is distinguished by <sup>character</sup> ~~marked~~ <sup>marked</sup>  
as nothing else than a struculated blood, the effect of the  
most violent inflammation is then. Admitting that fevers are  
sympathetic having their origin in some irritation, we do not think  
authorised to infer that it is most common the stomach to  
which this irritation is applied; there from its position situation  
and extensive sympathies, the most common action may be  
to generally diffuse itself, involving finally the whole system.  
The sympathy existing between the stomach and skin is very  
immediate. It had been ascertained that worms as often  
as a morbid state of the stomach have proved to be either  
intractable and untreatable by the skin or in solution, but  
which settles readily as soon as the state of the stomach was  
altered to such a due performance of its functions restored.  
The whole of the exanthemata exhibit such satisfactory evi-  
dence of positive origin, that to enter into any doubt as to  
them would be superfluous. It seems well known to the physi-  
cians, phenomena on digestion and most of even of these



disorders, will suffice. They commence always with much disorder of the stomach, which is mitigated or entirely removed by the appearance of the eruption, and if from any exposure this eruption should suffer a sudden reception from the surface, a deadly sickness uniformly reverts. In those cases where it is susceptible of demonstration that the stomach is feebly affected, the same symptoms occur: as when from having eaten poisonous food the stomach becomes disordered, an eruption on the surface affords instant relief. Dissections shew in the exanthemata where no eruption had occurred, the mucous coat of the intestines marked with a species of erysipelatous inflammation; and such cases (no relief being afforded by the cutaneous eruption) are always of a malignant nature. Dr Chapman observes that the feature of malignancy in disease is under all circumstances, derived from the stomach. By opposite states of this organ only, can the difference between the natural and inoculated small pox be accounted for. In the first form of the disease, the stomach is primarily affected by the direct application of the viruluous matter to it, and

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hence the violent symptoms of casual small pox are produced. But in the inoculated form, the matter is applied to a portion of the skin, the sympathies of which, are comparatively weak, and in consequence the symptoms following are of a milder nature. I have thus enumerated a few of those diseases whose origin in the stomach admits of very little doubt. Many more might be added, for instance many of the nervous affections particularly Epilepsy, Asthma and many others. But enough I hope has been said to demonstrate the relative importance of the stomach, and show it to be a chief medium for the application of remedies in the removal of disease.

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